Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Office of the Secretary Of Defense

R-1 Program Element (Number/Name)

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 6:

PE 0605104D8Z I Technical Studies Support and Analysis

Date: February 2018

RDT&E Management Support

Appropriation/Budget Activity

COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	133.008	20.300	22.386	22.576	-	22.576	23.158	23.417	23.995	24.434	Continuing	Continuing
421: Technical Studies	133.008	20.300	22.386	22.576	-	22.576	23.158	23.417	23.995	24.434	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program is a key source of funding for the Office of the Secretary of Defense and the Joint Staff to manage studies, analyses, strategic planning, and technical support efforts to improve and support policy development, decision making, management and administration of DoD programs and activities. Studies and analyses will examine current and alternative policies, plans, operations, strategies and budgets, providing essential means for managing and responding to the shifting and complex international, political, technological, economic, military, and acquisition environments in which national security planning decisions are made. Independent analyses from subject matter experts are instrumental for senior defense planners in making informed choices regarding requirements for force planning and strategic deployment of assets taking into account technological challenges and resource constraints, and there is a strong need to incorporate the findings of operational analysis in force planning requirements and projections. With the complexities of emerging advanced security threats in the current geopolitical environment, the need for objective analysis and forward looking planning to inform senior leadership for the mid and long-term is vital to remaining strategically competitive.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	23.069	22.386	22.760	-	22.760
Current President's Budget	20.300	22.386	22.576	-	22.576
Total Adjustments	-2.769	0.000	-0.184	-	-0.184
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-1.600	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.350	-			
SBIR/STTR Transfer	-0.792	-			
 General budget and economic adjustments 	-	-	-0.184	-	-0.184
FFRDC transfer	-0.024	-	-	-	-
Cancelled account withhold	-0.003	-	-	-	-

Change Summary Explanation

Reductions are reflected for mandated statutory reductions and general budget changes. The FY 17 reprogramming event was an internal one-time realignment of funding to PE 0604016D8Z to facilitate execution of a USD(AT&L) technical requirement.

As part of the Department of Defense reform agenda, the budget estimate reflects a stable trend in the number and cost of reports and studies in the near-term.

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of the Secretary Of Defense Date: February 2018												
Appropriation/Budget Activity 0400 / 6					,				Project (Number/Name) 421 / Technical Studies			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
421: Technical Studies	133.008	20.300	22.386	22.576	-	22.576	23.158	23.417	23.995	24.434	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2017	FY 2018	FY 2019
Title: Technical Studies and Analyses Support for the Office of the Secretary of Defense	20.300	22.386	22.576
FY 2018 Plans: Technical Support for the USD(Acquisition, Technology & Logistics) and USD(Acquisition and Sustainment): Studies and analyses of:			
Technical areas regarding joint warfighting capability and technology planning, strategic and conventional system requirements, semiconductor supply chain assurance, operational mission integration management capabilities, critical munitions requirements, networked sensor architecture planning, counter WMD defense capabilities, strategic defense architectures, industrial base capabilities assessments, cyber capabilities, defense manufacturing technology, effects of defense industry consolidation, methods to facilitate innovative emerging commercial technological solutions, acquisition policy effectiveness, technologies for evolving mission requirements, allied defense capabilities, strategic basing requirements, DoD installations planning, logistics supply chain and energy requirements, NATO policy planning, identifying acquisition program risk, support to Defense Science Board task forces on various evolving technological and warfare issues, and advanced electronic warfare countermeasures. Technical Support for the Director, Cost Assessment and Program Evaluation: Studies and analyses regarding the following areas:			

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of the	he Secretary Of Defense		Date: F	ebruary 2018	3	
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605104D8Z I Technical Studies Support and Analysis	e) Project (Number/Name) 421 / Technical Studies				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019	
Requirements regarding investment and resource planning such a strategic mobility, maintaining force readiness, personnel force moperations and force support requirements, technical studies and research, comparative analyses of alternative strategic and convecontinuation of development of critical management instruments if the defense program and supporting development of the Future Y. Technical Support for the USD(Policy): Studies, analyses, and activities in the following areas: Requirements regarding national security geopolitical posture and international defense policy planning, strategic force requirements deterrence and counterproliferation requirements, international deplanning, technological and other external effects on strategic requontingency and stability operations, countering emerging terroris simulations of areas of interest for legislative and executive brance. Technical Support for the USD(Personnel & Readiness):	d policies such as regional and strategic defense strategy, shomeland defense and humanitarian response capabilitiefense trade and industrial relationships, NATO requirements, space and transnational criminal threats, and strategic-level and transnational criminal threats, and strategic-level	and ity of				
Studies and analyses in the following areas:						
Requirements regarding sustainment and planning for the force o issues, medical force infrastructure, compensation analyses, iden readiness and sustainability, military family and educational issue Total Force portfolio.	tifying critical personnel requirements, reserve component	t				
Technical Support for the Joint Staff conducting joint research wit	h OSD:					
Joint Studies and analyses with OSD based upon contingency pla supply chain requirements, joint training requirements, force prog		ty and				
FY 2019 Plans: Technical Support for the USD(Acquisition and Sustainment): Studies and analyses of:						

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of t	the Secretary Of Defense		Date: F	ebruary 2018	3	
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605104D8Z I Technical Studies Support and Analysis	Project (Number/Name) 421 / Technical Studies				
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019	
Cybersecurity for weapons systems, technological capabilities re systems and communications capabilities, space systems require cyber assurance, acquisition policy effectiveness, foreign defense installations planning, logistics supply chain and energy requirem Defense Science Board task forces on various evolving technologinvestment and acquisition strategy.	ements, industrial base and defense manufacturing require e industry developments, strategic basing requirements, Do nents, acquisition program performance, support to various	ments,				
Technical Support for the Director, Cost Assessment and Program Studies and analyses regarding the following areas:	m Evaluation:					
Various analytic requirements for maintaining a balanced portfolion planning such as emerging strategic and tactical systems require force readiness and personnel planning requirements, capability conventional force requirements, technical studies and analyses and continuation of development of critical management instruments of the defense program and supporting development of the Future	ements, mobility and logistical support capabilities, maintain planning resulting from scenario analyses, contingency and to support independent cost estimates and economic reseasents for measuring the long-term trends, strength and afford	d arch,				
Technical Support for the USD(Policy): Studies, analyses, and activities in the following areas:						
Requirements regarding national security geopolitical posture and countering weapons of mass destruction, global strategic affairs, homeland defense support of civil authorities, planning, technolog and cyber strategic guidance planning, protection of defense critiplanning, and strategic-level simulations of areas of interest for legislations.	defense capabilities continuity, space and cyber policy, gical and other external effects on strategic requirements, scal infrastructure, contingency and stability operations, nuc					
Technical Support for the USD(Personnel & Readiness): Studies and analyses in the following areas:						
Requirements regarding sustainment and planning for the force of issues, training requirements, maintaining strategic readiness, contribution of contingency readiness, diversity management and equal opportu	ompensation and quality of life matters and retention, identified sustainability, health and medical issues, crisis and					

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Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605104D8Z I Technical Studies Support and Analysis	ect (Number/ Technical St		
B. Accomplishments/Planned Programs (\$ in Millions) Technical Support for the Joint Staff conducting joint research with	OSD:	 FY 2017	FY 2018	FY 2019
Joint Studies and analyses with OSD based upon operations research mobility capabilities, supply chain and support requirements, joint t	•			

programming planning, and basing requirements.

FY 2018 to FY 2019 Increase/Decrease Statement:
Increase reflects general program price changes accounting for inflation. FY 2019 plans reflect the transition of certain functions from the USD(Acquisition, Technology & Logistics) to the USD(Acquisition and Sustainment)

Accomplishments/Planned Programs Subtotals 20.300 22.386 22.576

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

FY 2019 BA: \$22.576 FY 2019 BA Assoc w/Metrics: \$22.576 Percent FY 2019 BA Assoc w/Metrics: 100%

Exhibit R-2A, RDT&E Project Justification: PB 2019 Office of the Secretary Of Defense

This program conducts approximately seventy-five actions per fiscal year to support a wide variety of national security goals of the Department and is designed to encourage a collaborative research approach among the components of OSD and the Joint Staff. The research and study projects supported by this program are closely integrated with the strategic goals of the Department of Defense. The focus of studies varies across a wide spectrum including weapons systems cost analysis, strengthening and leveraging alliances, human resource and military personnel management, examination of innovative technologies, application of technology to operational doctrine, and many other issues of emerging importance. Most of the actions are long to intermediate-range in outlook, and the program allows organizational leaders to plan and guide their research toward meeting their highest-priority goals and other high-level guidance such as executive branch performance management objectives, the Quadrennial Defense Review, the President's National Security Strategy, and the National Military Strategy of the United States of America.

In following the program efficiencies guidance of the Secretary of Defense, the scope of studies and analyses has been limited as necessary in order to focus upon issues of the highest strategic importance and needs to the Department of Defense while continuing to make every effort to support requirements for the Office of the Secretary of Defense developing from legislative direction.

Date: February 2018